ENVIRONMENTAL CHEMISTS

Date of Report: 04/07/00 Date Received: 03/23/00

Project: Metro Self Monitor, PO# M63796

Date Extracted: 03/27/00 Date Analyzed: 03/28/00

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

Sample ID	Chromium	Copper	Nickel	<u>Zinc</u>
Laboratory ID				
M63796	0.20	0.19	0.21	< 0.05
003154-01				
Method Blank	< 0.05	< 0.05	< 0.05	< 0.05

ENVIRONMENTAL CHEMISTS

Date of Report: 04/07/00 Date Received: 03/23/00

Project: Metro Self Monitor, PO# M63796

QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 003154-01 (Duplicate)

	Reporting	Sample	Duplica	Relative te Percent	Acceptance
Analyte	Units	Result	Result		AND THE RESERVE TO SERVE THE PROPERTY OF THE P
Chromium	mg/L (ppm)	0.20	0.22	10	0-20
Copper	mg/L (ppm)	0.19	0.21	10	0-20
Nickel	mg/L (ppm)	0.21	0.21	0	0-20
Zinc	mg/L (ppm)	< 0.05	< 0.05	nm	0-20

Laboratory Code: 003057-01 (Matrix Spike)

10		Reporting	Spike	Sample	% Recov	ery	% Recov	ery	Acceptance		
	Analyte	Units	Level	Result	MS		MSD		Criteria	RPD)
R _p	Chromium	mg/L (ppm)	5	0.20	98	4.1	99		80-120	1	
	Copper	mg/L (ppm)	5	0.19	97	A 20	95		80-120	2	
	Nickel	mg/L (ppm)	10	0.21	95		98		80-120	3	
	Zinc	mg/L (ppm)	5	< 0.05	100	g de de	106		80-120	6	n 1 33

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	% Recovery	% Recove	ery A	cceptanc	е	
Analyte	Units	Level	LCS	LCSD		Criteria	RPD	
Chromium	mg/L (ppm)	5	99	97		80-120	2	
Copper	mg/L (ppm)	5	96	94		80-120	2	8 , 8
Nickel	mg/L (ppm)	10	100	98		80-120	2	
Zinc	mg/L (ppm)	5	101	99		80-120	2	79 [[A]

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

#003154

FRIEDMAN & BRUYA, INC. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282

SAMPLE CHAIN OF CUSTODY

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ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

April 7, 2000

DUPLICATE COPY

INVOICE #00ACU0407-1

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M63796 - Results of testing requested by Gerald A. Thompson for material submitted on March 23, 2000.

FEDERAL TAX ID (b) (6)

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

April 7, 2000

Gerald A. Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on March 23, 2000 from your Metro Self Monitor, PO# M63796 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Dianne C. Churt

Dianne C. Hurt Project Manager

Enclosures ACU0407R.DOC